



09782807-02142001  
#5  
Docket No. 22-0123

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of: David A. Wright, Michael W. Mann, Aaron D. Falk, and Rhon L. Williams

Application No.: 09/782,807

Group No.: Unassigned

Filed: 02/14/2001

Examiner: Unassigned

For: ENCAPSULATION METHOD AND APPARATUS FOR COMMUNICATING  
FIXED-LENGTH DATA PACKETS THROUGH AN INTERMEDIATE NETWORK

**AMENDMENT**

Commissioner for Patents  
Washington, D.C. 20231

**RECEIVED**

FEB 06 2003

**OFFICE OF PETITIONS**

Sir:

In response to the Notice to File Corrected Application Papers originally mailed on April 6, 2001, please amend the above-identified application as follows:

**IN THE SPECIFICATION:**

Please replace the Abstract with a paragraph that reads as follows:

A method and apparatus for communicating fixed-length data packets through an intermediate computer network. The method comprises receiving a data packet characterized by a fixed-length packet format, and constructing a remnant packet characterized by the fixed-length packet format, which includes inserting at least a portion of the data packet routing information in the data field of the remnant packet. The method also comprises communicating the remnant packet, receiving the remnant packet and constructing a reconstructed data

packet, which includes inserting data packet routing information obtained from the remnant packet, in the address field of the reconstructed packet. The apparatus comprises a communication network node comprising a receiver, transmitter, computer memory and processor for performing the foregoing method steps.

**REMARKS**

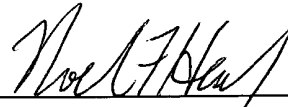
In response to the Notice to File Corrected Application Papers, Applicant has amended the Abstract to be less than 150 words in length.

Respectfully submitted,

Date: January 29, 2003

Tel. No.: 310-812-4910

Fax No.: 310-812-2687



Noel F. Heal, Reg. No. 26,074  
Northrop Grumman Corporation  
Space Technology  
Intellectual Asset Management  
One Space Park, Bldg. E2/6051  
Redondo Beach, CA 90278

## MARKED-UP VERSION TO SHOW CHANGES MADE

The Abstract has been amended as follows:

A method ~~(400, 700)~~ and apparatus ~~(500, 700)~~ for communicating fixed-length data packets through an intermediate computer network. The method ~~(400)~~ comprises receiving a data packet characterized by a fixed-length packet format<sub>1</sub>. ~~The method (400) comprises and~~ constructing ~~(435)~~ a remnant packet characterized by the fixed-length packet format, which includes inserting ~~(455)~~ at least a portion of the data packet routing information in the data field of the remnant packet. The method ~~(400, 700)~~ also comprises communicating ~~(470, 710)~~ the remnant packet<sub>1</sub>. ~~The method (700) comprises receiving (710) the remnant packet and constructing (755) a reconstructed data packet, which includes inserting (765) data packet routing information obtained from the remnant packet, in the address field of the reconstructed packet. The apparatus (500, 800) comprises a communication network node (500) comprising a receiver (510), transmitter (520), computer memory (540) and processor (530) for performing the foregoing method steps. The receiver (510) receives data packets characterized by the fixed-length packet format. The processor (530) receives a data packet from the receiver and constructs a remnant packet characterized by the fixed-length packet format in which the data field includes data packet routing information. The processor (530) sends the remnant packet through the intermediate network via the transmitter (520). The apparatus (500,~~

~~800) also comprises a second communication network node (800) comprising a receiver (810), transmitter (820), computer memory (840) and processor (830). The receiver (810) receives a remnant packet, and the processor (830) constructs a reconstructed data packet characterized by the fixed-length packet format, where the address field of the reconstructed data packet includes data packet routing information obtained from the data field of the remnant packet.~~